

**RECEIVED**  
**CENTRAL FAX CENTER****OCT 23 2004****The Law Offices of Mikio Ishimaru**

Intellectual Property Law  
Patents - Licensing - Strategy - & Related Matters  
1110 Sunnyvale-Saratoga Road, Suite A1  
Sunnyvale, CA 94087  
Telephone: (408) 738-0592  
Fax: (408) 738-0881

**Fax**

To: Mail Stop AF  
Examiner Tianjie Chen

From: Mikio Ishimaru

Fax: (703) 872-9306  
TC 2652 - After Final

Pages: 18, including this page

Phone: (703) 305-7499

Date: October 23, 2004

Re: U.S. Patent Application Serial CC:  
No. 09/943,859

☒ Response/Amendment to Office Action ☐ Information ☐ Other

**IMPORTANT**

The information contained in this facsimile is intended only for the use of the individual or entity to whom it is addressed. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this facsimile in error, please immediately notify us by telephone, and return the original message to us at the address above via the U.S. Postal Service. Thank you.

For confirmation or assistance, call (408) 738-0592

Dear Examiner Chen:

Attached are a Transmittal and Response/Amendment to the Final Office Action dated August 23, 2004, for U.S. Patent Application Serial No. 09/943,859 (attorney docket no. 1012-003 ).

Respectfully submitted,



Mikio Ishimaru  
Reg. No. 27,449

Docket No.: 1012-003

**PATENT**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kyusik Shin et al.

: Confirmation No.: 2190

Serial No.: 09/943,859

: Examiner: Tianjie Chen

Filed: Aug 30, 2001

: Group Art Unit: 2652

For:

SPIN-DEPENDENT TUNNELING  
READ/WRITE SENSOR FOR HARD  
DISK DRIVES

TRANSMITTAL FOR ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Response / Amendment	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> After Final	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Affidavits/Declaration(s)	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Information Disclosure Statement, PTO Form-1449, & cited Reference(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	Fax Cover Sheet
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

The fee, if required, has been calculated as shown below:

	NO. OF CLAIMS	HIGHEST PREVIOUSLY PAID FOR	EXTRA CLAIMS	RATE	FEE
Total Claims	20	20	0	x \$18 =	\$ 0.00
Independent Claims	4	4	0	x \$88 =	\$ 0.00
If multiple claims newly presented, add \$300					
Fee for extension of time					
TOTAL FEE					\$0.00

- ☐ Please charge Deposit Account No. 50-0374 in the amount of \$ 0.00. An additional copy of this transmittal sheet is submitted herewith.
- ☒ The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 50-0374, including any filing fees under 37 CFR 1.16 for presentation of extra claims and any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

*Mikio Ishimaru*Mikio Ishimaru  
Registration No. 27,449  
Date: October 23, 2004

CERTIFICATE OF MAILING OR TRANSMISSION			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date below:			
Type or printed name	Vickie Ishimaru		
Signature	<i>Vickie Ishimaru</i>	Date	October 23, 2004

I hereby certify that this correspondence is being  
facsimile transmitted to the United States Patent and  
Trademark Office on October 23, 2004.

Signed: Vickie Ishimaru  
Vickie Ishimaru

**RECEIVED**  
**CENTRAL FAX CENTER**  
**OCT 23 2004**

Docket No.: 1012-003

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	Kyusik Sin, et al.	:	Confirmation No.:	2190
Serial No.:	09/943,859	:	Art Unit:	2652
Filed:	8/30/2001	:	Examiner:	Tianjie Chen
For:	SPIN-DEPENDENT TUNNELING READ/WRITE SENSOR FOR HARD DISK DRIVES	:		

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE /AMENDMENT AFTER FINAL ACTION  
UNDER 37 CFR §1.116**

Sir:

The following Amendment and Remarks are submitted under 37 CFR §1.116 in response to the Final Office Action mailed August 23, 2004, following the amendment format set forth under 37 CFR §1.121. After this introductory section, there are Amendments to the Specification, Amendments to the Claims, and then Remarks, each starting on a separate page.

Amendments to the Specification consist of amendments for page 6. Amendments to the Claims consist of amendments for claims 1, 6, 11, and 16, which are incorporated in a complete listing of the claims.